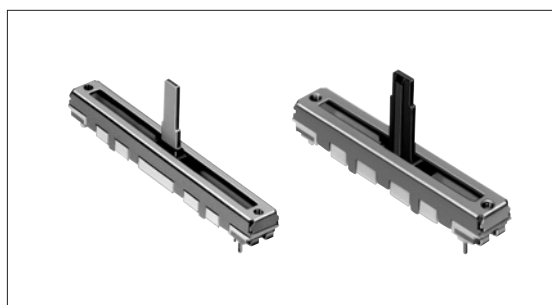


# Slide Potentiometer Standard Type (Super Slide™)

RS□□1 Series



Solderable with auto dipping and available in a wide variety.



## Features

- A wide range of products. (travel length : 15, 20, 30, 45, 60mm)

## Applications

- For contrast control in flat panel TVs
- For various types of control in mixing consoles, mini component stereos and electronic musical instruments
- For controlling heaters, dimmers, wipers and various in-car accessories
- For various types of control in intercoms, fan heaters and electric carpets

## Typical Specifications

Items	Specifications
Total resistance tolerance	±20%
Maximum operating voltage	50V AC, 10V DC
Operating force	0.3 to 2.5N
Operating life	15,000cycles
Operating temperature range	−25℃ to +70℃

Rotary Potentiometers

Slide Potentiometers

Multi Control Devices

Sensors

General-use

Mixer

## Recommended Products List

Insulated lever

Number of resistor elements	Travel (mm)	Lever types	Length of lever (mm)	Total resistance (kΩ)	Resistance taper	Detent	Mounting plate	Minimum packing unit (pcs.)	Products No.	Drawing No.		
Single-unit	30	J-1	5	10	15A		Without	100	RS301111J00P	1		
							With		RS301111AJ01R	2		
			50	1B	Without		RS301111J00R		1			
							15A			With	RS301111AJ01K	2
		A	10	10	1B	Without	RS301111A01G		3			
							Without		RS301111C01L	4		
	C	With				RS301111AC00V	5					
						RS451111ABA02	6					
	Dual-unit					30	C				RS30112AC00J	7
							J-1		5		3B	

## Recommended Products List

### Metal lever

Number of resistor elements	Travel (mm)	Lever types	Length of lever (mm)	Total resistance (kΩ)	Resistance taper	Detent	Mounting plate	Minimum packing unit (pcs.)	Products No.	Drawing No.	
Single-unit	15	9-1	10	10	15A	Without	With	100	RS15111A900B	9	
	30				1B				Without	RS30111A9012	10
		With	RS3011114A02	11							
			45	9-1			10		Without	RS30111A602N	12
	RS45111A900F	13									
	60	6		15			15A		Without	RS4511119A04	14
			9-1		10					RS6011YA600M	15
		6	15	1B	Without		RS6011Y19004			16	
	Dual-unit	45	4	20	20		15A		With	RS6011Y1600Q	17
										RS451121400A	18
60		6	15	RS45112A400G						19	
				RS60112A600N						20	
				RS60112A600U							

### Note

Products other than those listed in above recommended products are also available. Please contact us for details.

Refer to **P.110** for product varieties.  
Refer to **P.106** for configuration details.  
Refer to **P.128** for product specifications.

Rotary  
Potentiometers

Slide  
Potentiometers

Multi Control  
Devices

Sensors

General-use

Mixer

## Dimensions

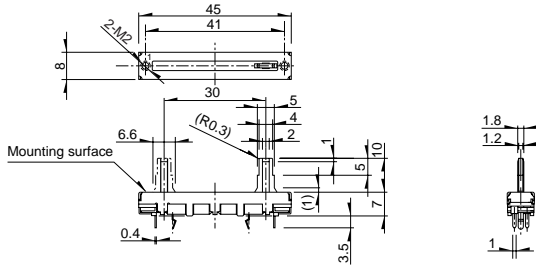
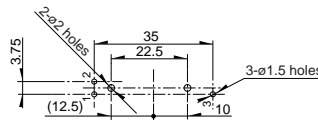
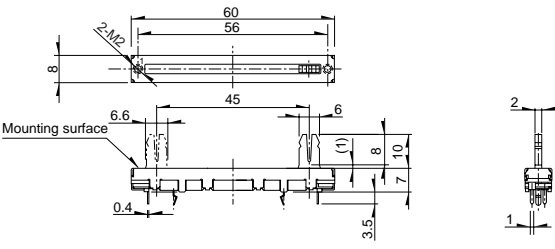
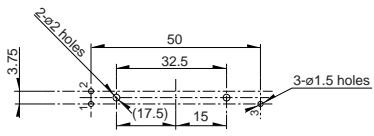
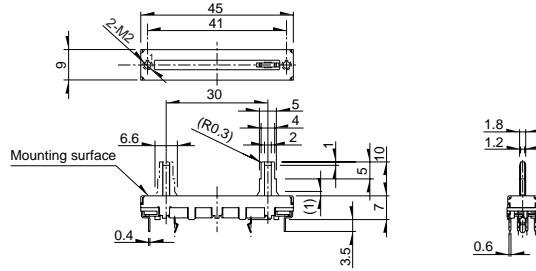
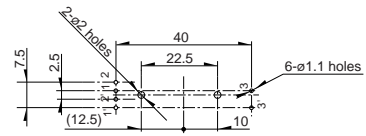
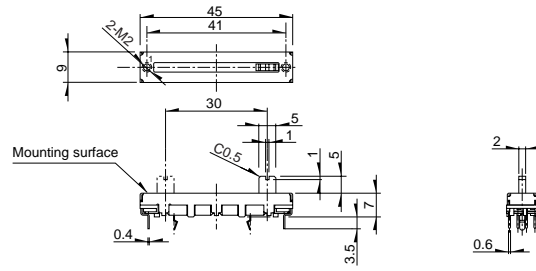
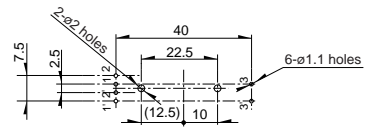
Unit:mm

No.	Style	PC board mounting hole dimensions
1		
2		
3		
4		

The length of the operating part (L<sub>1</sub>) can be customized. Refer to P.110 for details.

Dimensions

Unit:mm

No.	Style	PC board mounting hole dimensions
5		
6		
7		
8		

The length of the operating part (L<sub>1</sub>) can be customized. Refer to P.110 for details.

Dimensions

Unit:mm

No.	Style	PC board mounting hole dimensions
9		
10		
11		
12		

Rotary  
Potentiometers

Slide  
Potentiometers

Multi Control  
Devices

Sensors

General-use

Mixer

The length of the operating part (L<sub>1</sub>) can be customized. Refer to P.110 for details.

Dimensions

Unit:mm

No.	Style	PC board mounting hole dimensions
13		
14		
15		
16		

The length of the operating part (L<sub>1</sub>) can be customized. Refer to P.110 for details.

Dimensions

Unit:mm

No.	Style	PC board mounting hole dimensions
17		
18		
19		
20		

Rotary  
Potentiometers

Slide  
Potentiometers

Multi Control  
Devices

Sensors

General-use

Mixer

The length of the operating part (L<sub>1</sub>) can be customized. Refer to P.110 for details.

Product Varieties

In addition to the recommended products, the following specifications can also be accommodated.

Travel Distance Variety

Travel (mm)	15	20	30	45	60
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Total Resistance Variety

Total resistance (k $\Omega$ )	10	20	50	100	200
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Resistance Taper

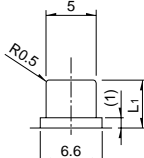
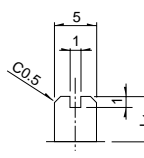
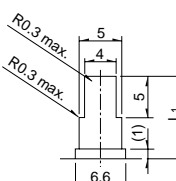
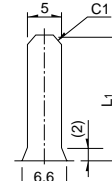
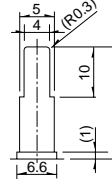
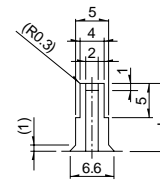
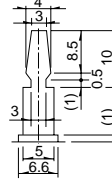
Resistance taper	1B	4B	10A	15A
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Note

DC (10VDC) is also available. (Tapped types are not available)

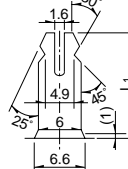
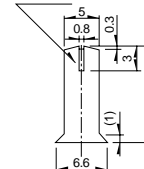
Lever Types

Unit:mm

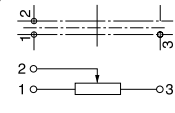
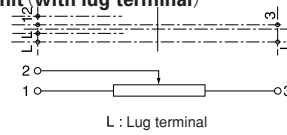
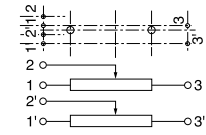
Metal lever		Insulated lever							
Code	Dimensions	Code	Dimensions						
9-2	 <table><tr><td>L<sub>1</sub></td></tr><tr><td>5</td></tr></table>	L <sub>1</sub>	5	J-1	 <table><tr><td>L<sub>1</sub></td></tr><tr><td>5</td></tr></table>	L <sub>1</sub>	5		
	L <sub>1</sub>								
5									
L <sub>1</sub>									
5									
9-1	 <table><tr><td>L<sub>1</sub></td></tr><tr><td>10</td></tr></table>	L <sub>1</sub>	10	A	 <table><tr><td>L<sub>1</sub></td></tr><tr><td>10</td></tr><tr><td>15</td></tr></table>	L <sub>1</sub>	10	15	
L <sub>1</sub>									
10									
L <sub>1</sub>									
10									
15									
6	 <table><tr><td>L<sub>1</sub></td></tr><tr><td>15</td></tr><tr><td>20</td></tr></table>	L <sub>1</sub>	15	20	C	 <table><tr><td>L<sub>1</sub></td></tr><tr><td>10</td></tr><tr><td>15</td></tr></table>	L <sub>1</sub>	10	15
L <sub>1</sub>									
15									
20									
L <sub>1</sub>									
10									
15									
4	 <table><tr><td>L<sub>1</sub></td></tr><tr><td>15</td></tr><tr><td>20</td></tr></table>	L <sub>1</sub>	15	20					
L <sub>1</sub>									
15									
20									

Corresponding Specifications

Unit:mm

Resistance taper	3B, 15C	Insulated lever configuration							
		B	D (Marker colour tone: white, red)						
Dust cover	Available	 <table><tr><td>L<sub>1</sub></td></tr><tr><td>10</td></tr><tr><td>15</td></tr></table>	L <sub>1</sub>	10	15	 <table><tr><td>L<sub>1</sub></td></tr><tr><td>10</td></tr><tr><td>15</td></tr></table>	L <sub>1</sub>	10	15
L <sub>1</sub>									
10									
15									
L <sub>1</sub>									
10									
15									
Tap	Available (Only the center-positioned)								

Terminal Layout/Circuit Diagram

		
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Note

marked are specifications recommended by ALPS.

Refer to P.111 for resistance taper.



## Orders Other Than Recommended Products

When ordering product varieties that are not listed in the Recommended Product list, please specify by referring to the below example.

### Sample Part Number



Specify the travel distance from the below codes.

Travel (mm)	Code	Travel (mm)	Code
15	15	45	45
20	20	60	60
30	30		

Number of resistor elements

Single	1 (Enter "Y" for 60 mm travel)
Dual	2

Lever type/Length of operation unit (mm)

Insulated lever

Code	Configuration	Length
J1	J-1	5
0A	A	10
		15
0C	C	10
		15
0B	B	10
		15

Metal lever

Code	Configuration	Length
91	9-1	10
92	9-2	5
		15
04	4	20
		15
06	6	20

Insulated lever (Marker type)

Code	Style	Color	Length
DR	D	Red	10
DW		White	15

Length of operation unit

If the length is less than 10 mm, add a "0" before the number.  
(e.x., 5 mm length="05")

Detent

Code	Detent
C0	Without
C1	Center

Mounting plate

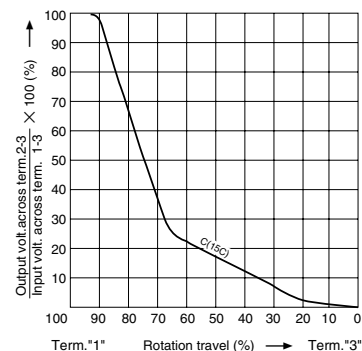
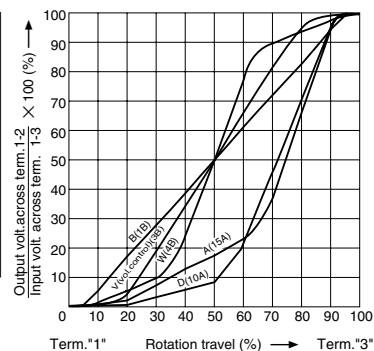
Code	Mounting plate
P0	Without
P1	With

Total resistance

Code	Total resistance (kΩ)	Code	Total resistance (kΩ)
103	10	104	100
203	20	204	200
503	50		

Resistance taper

Code	Resistance taper
A	15A
B	1B
D	10A
W	4B
V	3B
C	15C



B:For tone & general  
V:For vol.

### Note

marked are specifications recommended by ALPS.

## Products Specifications

Type	Super Slide™	Slim Slide™ (Slim4)	Slim Slide™ (Low-Profile)
Model	RS□□11□	RS□□H1□	RS□□M11

## Mechanical Performance

Operating temperature range		-25℃ to +70℃		-10℃ to +70℃
Operating force		0.3 to 2.5N	0.2 to 1.1N	0.15 to 0.8N
Stopper strength		50N	30N	30N
Lever push-pull strength			30N	20N
Lever wobble (mm) ※Both sides		$\frac{2(2 \times L)}{20}$	1.6 max.	
Detent slip-out force		Operating force+(0.2 to 2N)	Operating force+(0.05 to 0.8N)	With click feeling
Lever deviation (mm) ※One sides		0.5 max.		
Solder heat resistance	Manual soldering	350℃ max. 3s max.		
	Dip soldering	260℃ max. 5s max.		260℃ max. 5s max. Surface mount terminal :not available

## Electrical Performance

Total resistance (kΩ)	10, 20, 50, 100, 200	5, 10, 20, 50, 100, 200, 250
Total resistance tolerance	±20%	
Resistance taper	15A, 1B, 4B, 10A, 3B, 15C	15A, 1B, 3B

## Endurance

Sliding operation life	15,000cycles	10,000cycles
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## Environmental Test

Cold	-30±2℃ for 96h	
Dry heat	70±2℃ for 96h	70±2℃ for 240h
Damp heat	40±2℃, 90 to 95%RH for 96h	

## Notes

1. "L" in the "Lever Wobble" of above table indicate the measuring point.
2. Products other than those listed in the above list are also available. Please contact us for details.
3. The resistance taper specifications marked with ( ) are individually defined.